

Abstract

To provide an NO_x removal catalyst management unit for use with an NO_x removal apparatus, the management unit detecting an NO_x removal catalyst layer that is actually deteriorated, whereby the deteriorated catalyst layer can be effectively replaced by a new catalyst layer, and to provide a method for managing the NO_x removal catalyst.

The management unit for managing a plurality of NO_x removal catalyst layers provided in a flue gas NO_x removal apparatus includes NO_x measurement means 16A through 16E for determining NO_x concentrations on the inlet and outlet sides of respective NO_x removal catalyst layers 14A through 14D; NH₃ measurement means 17A through 17E for determining NH₃ concentrations on the inlet and outlet sides of the same NO_x removal catalyst layers; and percent NO_x removal determination means 18 for determining percent NO_x removal (η) on the basis of an inlet mole ratio (i.e., inlet NH₃/inlet NO_x).